Seat No.: Enrolment No	
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GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER - II • EXAMINATION - WINTER 2012

Subje	ect l	code: 1721106 Date: 04-01-2013 Name: Automobile Maintenance and Pollution Control		
Time	: 10	0.30 am – 01.00 pm Total Marks: 70		
Instructions:				
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)(b)	remedies for: (a) Engine is not starting; (b) Engine starts but stops immediately.	07 07	
Q.2	(a) (b)	Explain automobile wheel balancing. Describe common damages to tyres with their repairs. Also give your comments on Tyre rotation for vehicle control and safety.	07 07	
	(b)	OR Enumerate the various troubles of a valve mechanism of I.C. Engine. Discuss each trouble in brief.	07	
Q.3	(a) (b)	Explain wheel alignment of an automobile. What is called bleeding of hydraulic brake system? Explain it. OR	07 07	
Q.3	(a) (b)	Explain in detail reduction of exhaust emission of SI engine Explain maintenance and servicing of Power steering systems.	07 07	
Q.4	(a) (b)	Write a short note on maintenance of MPFI. Write short note on recent Fuel additives used in automobile industry. OR	07 07	
Q.4	(a) (b)	What is catalytic converter? How does it work? Explain the effects of automobile pollution in environment?	07 07	
Q.5	(a)	Write a short note on Indian pollution norms as per Central Motor Vehicle Rules (C.M.V.R.).	07	
	(b)	Explain potential methods of solid waste disposal. OR	07	
Q.5	(a) (b)	What is exhaust gas recirculation (EGR)? Explain with a sketch. Explain maintenance and care of storage batteries.	07 07	
